The Center has tremendous talent and capabilities that can provide benefits beyond its physical boundaries. While focusing on NASA's missions, we must be good citizens of the State of Ohio and provide benefits to the taxpayers. This can be accomplished through the formation of partnerships, use of our technology to spur new businesses and industries, and outreach efforts.

Glenn Center Goal: "Become an integral part of the Ohio community and the Nation."

> Woodrow Whitlow, Jr. Director, NASA Glenn Research Center



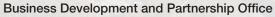
NASA Glenn Research Center

Robert (Joe) Shaw Business Development and Partnership Office

> 21000 Brookpark Road Cleveland, OH 44135

Phone: 216–977–7135 Fax: 216–977–7133

E-mail: robert.j.shaw@nasa.gov



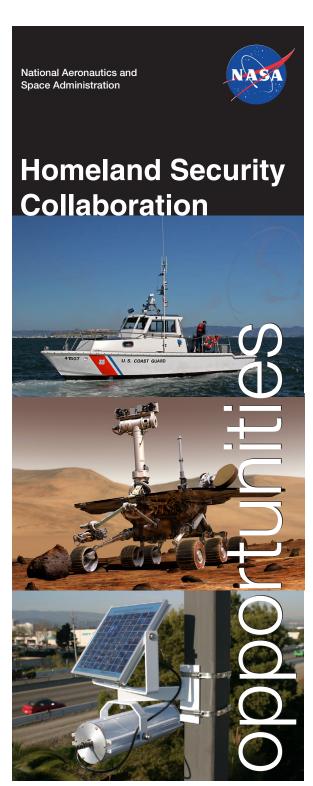
Visit us at

http://newbusiness.grc.nasa.gov

Glenn Research Center Facilities

Visit us at

http://www.nasa.gov/centers/glenn/testfacilities



3-1264 Aug 07

Fulfilling NASA missions while guiding future business opportunities

World-Class

Competencies • Technologies • Facilities

NASA Glenn Research Center's world-class competencies, facilities, technologies, and staff support NASA's missions of Exploration, Space Operations, Aeronautics, and Science. The Business Development and Partnership Office will work with external organizations to discover opportunities to collaborate, leverage resources, and develop the necessary technologies and products for the future.

Competencies

Homeland Security Research and Development

Competencies

Bioengineering Communications

Electrical systems Fluids, computational fluid dynamics (CFD), and turbomachinery

Modeling, simulation, and visualization Systems analysis

Systems engineering

Prevention

(Shipping from overseas ports)

- Inspection at foreign ports Sensors Sealed, tamperproof containers
- Highly damage-tolerant containers
- Re-inspection at U.S. ports
- Safe unpacking and distribution
- Electronic tracking and communications
- Border observation and tools

Detection (Explosive, radiation, and biological)

- Accurate
- Liquids, gases, and solids
- Laser technology analysis
- Robotics

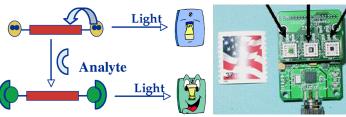
Communications

- Airships
- High-speed integrated network
- Video recognition and analysis

Cross-Cutting Competencies

Instrumentation, controls, and electronics Materials Nanotechnology Program and project management Structures

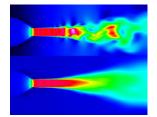
Technologies: Aerospace technologies applied to Homeland Security challenges



Electrical systems and sensors



Communication network



Fluids



Observation platform with photovoltaics arrays



Follow Up

(Cleanup processes)

Communications

with stakeholders

Bioengineering

Facilities/Test Hardware: Premier facilities available for collaboration



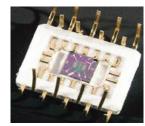
Visualization and virtual reality (GRUVE) lab



Near-field antenna lab



Network emulator lab



Sensors lab



Signal-processing lab